



National Voluntary Laboratory Accreditation Program



SCOPE OF ACCREDITATION TO ISO/IEC 17025:1999

NYS Bureau of Weights & Measures Metrology Laboratory

NYS Campus Bldg. 7A

1220 Washington Avenue

Albany, NY 12235

Mr. Ross Andersen

Phone: 518-457-3146 Fax: 518-457-5693

E-mail: agmweigh@agmkt.state.ny.us

URL: www.agmkt.state.ny.us/Weights_and_Measures/wmmetrol.htm

CALIBRATION LABORATORIES

NVLAP LAB CODE 200464-0

DIMENSIONAL

NVLAP Code: 20/D13

Surveying Rods and Tapes

Range	Best Uncertainty (\pm) in inches^{note 1}	Remarks
0.5 in to < 12 in	0.0022	Rules – Rule Method
12 in to 24 in	0.0022	Rules – Rule Method
1 ft to 16 ft (0.1 m to 5 m)	0.0034	Rules – Tape Method
1 ft to 16 ft (0.1 m to 5 m)	0.0038	Steel Tapes – Bench Method
15 ft to 30 ft (5 m to 10 m)	0.0072	Steel Tapes – Bench Method
30 ft to 45 ft (10 m to 15 m)	0.010	Steel Tapes – Bench Method
45 ft to 60 ft (15 m to 20 m)	0.014	Steel Tapes – Bench Method
60 ft to 75 ft (20 m to 25 m)	0.017	Steel Tapes – Bench Method
75 ft to 90 ft (25 m to 30 m)	0.021	Steel Tapes – Bench Method
90 ft to 105 ft (30 m to 35 m)	0.024	Steel Tapes – Bench Method
105 ft to 120 ft (35 m to 40 m)	0.027	Steel Tapes – Bench Method
120 ft to 135 ft (40 m to 45 m)	0.031	Steel Tapes – Bench Method
135 ft to 150 ft (45 m to 50 m)	0.034	Steel Tapes – Bench Method
150 ft to 165 ft (50 m to 55 m)	0.037	Steel Tapes – Bench Method
165 ft to 180 ft (55 m to 60 m)	0.041	Steel Tapes – Bench Method

2007-01-01 through 2007-12-31

Effective dates

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200464-0

180 ft to 195 ft	0.044	Steel Tapes – Bench Method
195 ft to 210 ft	0.047	Steel Tapes – Bench Method
1/4 yd to 5 yd	0.0077	Fabric Tapes – Tape Method
5 yd to 12 yd	0.014	Fabric Tapes – Tape Method
1 ft to 100 ft (1 m to 30 m)	0.13	Fabric Tapes – Tape Method
100 ft to 200 ft (30 m to 60 m)	0.18	Fabric Tapes – Tape Method
200 ft to 300 ft (60 m to 90 m)	0.22	Fabric Tapes – Tape Method
to 3 ft ³	0.26 %	Dry Measures – Linear Analysis

TIME & FREQUENCY

NVLAP Code: 20/F02

Time Dissemination

Range	Best Uncertainty (\pm) in sec ^{note 1}	Remarks
1 hr	0.10	Stopwatches

MECHANICAL

NVLAP Code: 20/M08

Mass

Range	Best Uncertainty (\pm) in mg ^{note 1}	Remarks
30 kg	27	Echelon II
25 kg	20	Echelon II
20 kg	17	Echelon II
10 kg	6.4	Echelon II
5 kg	3.5	Echelon II
3 kg	2.5	Echelon II
2 kg	2.0	Echelon II
1 kg	0.12	Echelon II
500 g	0.093	Echelon II
300 g	0.083	Echelon II
200 g	0.079	Echelon II

2007-01-01 through 2007-12-31

Effective dates

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200464-0

100 g	0.036	Echelon II
50 g	0.021	Echelon II
30 g	0.017	Echelon II
20 g	0.015	Echelon II
10 g	0.0088	Echelon II
5 g	0.0076	Echelon II
3 g	0.0073	Echelon II
2 g	0.0071	Echelon II
1 g	0.0061	Echelon II
500 mg	0.0066	Echelon II
300 mg	0.0058	Echelon II
200 mg	0.0056	Echelon II
100 mg	0.0070	Echelon II
50 mg	0.0072	Echelon II
30 mg	0.0071	Echelon II
20 mg	0.0071	Echelon II
10 mg	0.0075	Echelon II
5 mg	0.0071	Echelon II
3 mg	0.0069	Echelon II
2 mg	0.0069	Echelon II
1 mg	0.0072	Echelon II
50 lb	22	Echelon II
25 lb	17	Echelon II
20 lb	10	Echelon II
10 lb	6.7	Echelon II
5 lb	3.6	Echelon II
3 lb	2.6	Echelon II
2 lb	0.43	Echelon II
1 lb	0.23	Echelon II
0.5 lb	0.13	Echelon II
0.3 lb	0.072	Echelon II
0.2 lb	0.053	Echelon II
0.1 lb	0.041	Echelon II

2007-01-01 through 2007-12-31

Effective dates

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200464-0

0.05 lb	0.023	Echelon II
0.03 lb	0.014	Echelon II
0.02 lb	0.011	Echelon II
0.01 lb	0.0097	Echelon II
0.005 lb	0.0080	Echelon II
0.003 lb	0.0075	Echelon II
0.002 lb	0.0061	Echelon II
0.001 lb	0.0078	Echelon II
0.0005 lb	0.0065	Echelon II
0.0003 lb	0.0061	Echelon II
0.0002 lb	0.0072	Echelon II
0.0001 lb	0.0075	Echelon II
0.00005 lb	0.0073	Echelon II
0.00003 lb	0.0072	Echelon II
0.00002 lb	0.0072	Echelon II
0.00001 lb	0.0075	Echelon II
0.000005 lb	0.0073	Echelon II
0.000003 lb	0.0071	Echelon II
0.000002 lb	0.0072	Echelon II
0.000001 lb	0.0075	Echelon II

Range	Best Uncertainty (\pm) in g^{note 1}	Remarks
1000 kg	17	Echelon III
500 kg	5	Echelon III
200 kg	2.9	Echelon III
100 kg	2.9	Echelon III

Range	Best Uncertainty (\pm) in mg^{note 1}	Remarks
50 kg	0.40	Echelon III
30 kg	0.39	Echelon III
25 kg	0.20	Echelon III
20 kg	0.19	Echelon III

2007-01-01 through 2007-12-31

Effective dates

Sally S. Bruce
For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200464-0

Range	Best Uncertainty (\pm) in mg^{note 1}	Remarks
10 kg	71	Echelon III
5 kg	34	Echelon III
3 kg	32	Echelon III
2 kg	30	Echelon III
1 kg	28	Echelon III
500 g	5.0	Echelon III
300 g	4.6	Echelon III
200 g	4.2	Echelon III
100 g	4.2	Echelon III
50 g	0.33	Echelon III
30 g	0.27	Echelon III
20 g	0.27	Echelon III
10 g	0.22	Echelon III
5 g	0.22	Echelon III
3 g	0.073	Echelon III
2 g	0.073	Echelon III
1 g	0.064	Echelon III
500 mg	0.046	Echelon III
300 mg	0.046	Echelon III
200 mg	0.046	Echelon III
100 mg	0.046	Echelon III
50 mg	0.034	Echelon III
30 mg	0.034	Echelon III
20 mg	0.034	Echelon III
10 mg	0.034	Echelon III
5 mg	0.025	Echelon III
3 mg	0.025	Echelon III
2 mg	0.025	Echelon III
1 mg	0.025	Echelon III

2007-01-01 through 2007-12-31

Effective dates

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200464-0

Range	Best Uncertainty (\pm) in g^{note 1}	Remarks
2500 lb	18	Echelon III
2000 lb	13	Echelon III
1000 lb	5.6	Echelon III
500 lb	3.2	Echelon III
200 lb	2.6	Echelon III
100 lb	1.6	Echelon III
50 lb	0.38	Echelon III
Range	Best Uncertainty (\pm) in mg^{note 1}	Remarks
25 lb	71	Echelon III
20 lb	71	Echelon III
10 lb	34	Echelon III
5 lb	32	Echelon III
3 lb	30	Echelon III
2 lb	28	Echelon III
1 lb	4.5	Echelon III
0.5 lb	4.1	Echelon III
0.3 lb	4.1	Echelon III
0.2 lb	3.7	Echelon III
0.1 lb	0.30	Echelon III
0.05 lb	0.24	Echelon III
0.03 lb	0.24	Echelon III
0.02 lb	0.19	Echelon III
0.01 lb	0.19	Echelon III
0.005 lb	0.070	Echelon III
0.003 lb	0.070	Echelon III
0.002 lb	0.059	Echelon III
0.001 lb	0.040	Echelon III
8 oz	4.1	Echelon III
4 oz	4.1	Echelon III
2 oz	0.30	Echelon III
1 oz	0.24	Echelon III
1/2 oz	0.24	Echelon III

2007-01-01 through 2007-12-31

Effective dates

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200464-0

1/4 oz	0.19	Echelon III
1/8 oz	0.080	Echelon III
1/16 oz	0.070	Echelon III
1/32 oz	0.059	Echelon III

NVLAP Code: 20/M12

Volume

Range	Best Uncertainty (\pm) in ml ^{note 1}	Remarks
1 gal	0.61	Gravimetric – Glassware
1 gill	0.23	Gravimetric – Glassware
1 pint	0.11	Gravimetric – Glassware
1 quart	0.036	Gravimetric – Glassware
2 fl oz	0.015	Gravimetric – Glassware

Range	Best Uncertainty (\pm) in gal ^{note 1}	Remarks
10 gal	0.00145	Gravimetric – Metal Measures
5 gal	0.00075	Gravimetric – Metal Measures
1 gal	0.00016	Gravimetric – Metal Measures

Range	Best Uncertainty (\pm) in min ^{note 1}	Remarks
1 gal (5 L)	13	Transfer – Glassware
½ gal (2 L)	13	Transfer – Glassware
1 qt (1 L)	6.9	Transfer – Glassware
1 pt (500 ml)	3.5	Transfer – Glassware
1/2 pint (200 ml)	2.1	Transfer – Glassware
1 gal (5 L) 1 gill (100 ml)	1.6	Transfer – Glassware

Range	Best Uncertainty (\pm) in gal ^{note 1}	Remarks
150 gal	0.027	Transfer – Metal Measures
132 gal	0.027	Transfer – Metal Measures
100 gal	0.026	Transfer – Metal Measures
50 gal	0.025	Transfer – Metal Measures
25 gal	0.0052	Transfer – Metal Measures
5 gal	0.0013	Transfer – Metal Measures
2 gal	0.00050	Transfer – Metal Measures

2007-01-01 through 2007-12-31

Effective dates

For the National Institute of Standards and Technology



National Voluntary Laboratory Accreditation Program



CALIBRATION LABORATORIES

NVLAP LAB CODE 200464-0

-
1. Represents an expanded uncertainty using a coverage factor, $k = 2$, at an approximate level of confidence of 95 %.

2007-01-01 through 2007-12-31

Effective dates

A handwritten signature in black ink that reads "Sally S. Bruce".

For the National Institute of Standards and Technology